

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product name : 77001-00020, DETERGENT (special cleaner)
Use of the substance/preparation: Special cleaner for industrial ink jet printers (CIJ-printers)
Supplier : Paul Leibinger GmbH & Co. KG
Daimlerstr. 14
78532 Tuttlingen
Germany
Phone: +49 7461 92 86-0 Fax: +49 7461 92 86-199
www.leibinger-group.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

<u>Hazard classes and</u>	<u>Hazard categories</u>	<u>Hazard Statement</u>
Eye Irritant	Category 2	H320

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



Signal word: Warning

Hazard statements

H320: Causes eye irritation

Precautionary Statements

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

None

3. HAZARDS IDENTIFICATION

3.1. Substances

not applicable

3.2. Mixtures

Hazardous ingredients (Classification according to 67/548/EEC)

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
7732-18-5	231-791-2	Water	>90	Not a dangerous substance according to GHS
64-02-8	200-573-9	EDTA, tetrasodium salt	1 – 3	Acute toxicity, Category 4, oral; H302 Serious eye damage, Category 1; H318 Acute toxicity, Category 4, inhalation; H332

4. FIRST AID MEASURES

4.1. Description of first aid measures

In case of inhalation

If exposed to excessive fumes, remove to fresh air. Get medical attention if cough or other symptoms develop

In case of skin contact

Remove contaminated clothing. Gently wash skin with soap and water. Get medical attention if irritation develops or persists.

In case of eye contact

Immediately flush eyes with plenty of water for at least 5 minutes, lifting lower and upper eyelids occasionally. Get medical attention.

In case of ingestion

Call physician if pain or discomfort develops. Treat symptomatically.

4.2. Most important symptoms and effects, both acute and delayed

Physician's information / possible symptoms

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam

Dry powder

Carbon dioxide

Water spray jet

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products may be formed under fire conditions. Nature of decomposition products not known.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply if necessary.

5.4. Additional information

Not considered to be a fire hazard

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation.

Use personal protective clothing.

Keep away sources of ignition.

6.2. Environmental precautions

Do not discharge into the drains or bodies of water..

Do not seep away runed out product into ground or body of water.

Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

Additional Information

Information for disposal see chapter 13.

6.4. Reference to other sections

No information available.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Take the usual precautions when handling with chemicals.

General protective measures

Do not inhale vapours.

Avoid contact with the skin and eyes.

Hygiene measures

Do not eat, drink and / or smoke in work areas; wash hands after use.

Advice on protection against fire and explosion

Not considered to be a fire hazard

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in closed original container.

Ventilate store-rooms thoroughly.

Advice on storage compatibility

Do not store together with food.

Do not store together with oxidizing agents.

Store at cool and aired place and at distance to acids and alkalies.

Further information on storage conditions

Keep container tightly closed and store at cool and aired place.

Protect from light.

Do not keep long-term to heat.

Storage temperature between 10°C to 30°C (=50°F to 86°F).

7.3. Specific end use(s)

Special cleaner (detergent) for industrial InkJet printers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)

Contains no substances with occupational exposure limit values

8.2. Exposure controls

Respiratory protection

Not necessary.

Hand protection

Rubber, nitrile, or latex gloves are recommended.

No additional protection is required. Common sense chemical hygiene practices should be followed.

Eye protection

Safety glasses with side-shields are recommended

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

Liquid

Colour

colorless to pale yellow solution, clear

Odour

ammonia

Odour threshold

No information available.

Important health, safety and environmental information

	Value	Temperature at	Method	Remark
pH value	~9,5			
starts to boil	~100°C			
Melting point / Freezing point	-8°C			
Flash point	-4.0 °C		DIN51755	
Vapourisation rate	No information available			
Flammable (solid)	Not applicable.			
Flammability (gas)	Not applicable.			
Ignition temperature	Not applicable			
Self ignition temperature	No information available.			
Lower explosion limit	Not applicable			
Upper explosion limit	Not applicable			
Vapour pressure	similar to water			
Relative density	~1.135g/cm³ @25°C			
Vapour density	No information available.			
Solubility	Soluble.			
Partition coefficient octanol/ water (log PO/W)	No information available.			
Decomposition temperature	No information available.			
Viscosity dynamic	No information available			
Solvent concentration	100 %			

Oxidising properties

No information available.

Explosive properties

No information available.

9.2. Other information

No information available

10. STABILITY AND REACTIVITY

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Chlorine-based products.

10.5. Incompatible materials

Sodium Hypochlorite; Heated contact may etch Zinc, Aluminum, Copper and Nickel.
May craze polycarbonate and polymethyl methacrylate. Do not mix with other cleaners.

10.6. Hazardous decomposition products

Other decomposition products - no data available
In the event of fire: see section 5

Thermal decomposition

Remark: No decomposition if used as directed.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity/Irritability/Sensitization

No data available

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

RTECS: Not available

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicological effects

no data available

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6. Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recommendations for the product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Recommendations for packaging

Totally emptied packaging may be treated as household waste.

14. TRANSPORT INFORMATION

	<u>ADR/RID</u>	<u>IMDG</u>	<u>IATA-DGR</u>
14.1. UN number	-	-	-
14.2. UN proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	No	No	No

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC standard

% VOC by volume: <1%

15.2. Chemical Safety Assessment

No information available.

16. OTHER INFORMATION

Recommended uses and restrictions

Manual and ultrasonic cleaning methods are ideally suited for this special cleaner

Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Wording of the H-phrases specified in chapter 2 and 3 (not the classification of the mixture!)

H302: Harmful if swallowed

H320 Causes eye irritation.

H318: Causes serious eye damage

H332: Harmful if inhaled

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties. These products should be stored, handled, and used in conformity with any legal regulation. The